BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : Improvements to roads and drains at Jakkuru and Jakkuru Extension surrounding areas in ward No.08 Byatarayanapura Sub Division

Estimated Cost : 55.00 Lakhs

P Code P-3726

ಅಂದಾಜು ಪಟ್ಟಿಯ ವರದಿ

ವಿಷಯ: ವಾರ್ಡ್ ನಂ. 08(ಜಕ್ಕೂರು) ವ್ಯಾಪ್ತಿಯ Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in Ward No.08 Byatarayanapura Sub Division ಕಾಮಗಾರಿಗೆ ಅನುಮೋದನೆ ನೀಡುವ ಕುರಿತು.

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ವಾರ್ಡ್ ನಂ. 08(ಜಕ್ಕೂರು) ವ್ಯಾಪ್ತಿಯ Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in Ward No.08 Byatarayanapura Sub Division ಕಾಮಗಾರಿಗೆ ರೂ. 55.00 ಲಕ್ಷಗಳ ಅಂದಾಜು ಮೊತ್ತದಲ್ಲಿ 2022-23 ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದ ಲೆಕ್ಕಶಿರ್ಷಿಕೆ ಪಿ-3726ರ ಕಾಮಗಾರಿ ಕ್ರಿಯ ಯೋಜನಾ ಪಟ್ಟಿಯಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಅವಕಾಶ ಕಲ್ಪಿಸಲಾಗಿದ್ದು, ದಿನಾಂಕ: 06.08.2022 ರಂದು ನಡೆದ ವಾರ್ಡ್ ಮಟ್ಟದ ಸಾರ್ವಜನಿಕ ಲೋಕೋಪಯೋಗಿ, ನಗರ ಯೋಜನೆ ಮೂಲ ಸೌಕರ್ಯ ಸ್ಥಾಯಿ ಸಮಿತಿ ಸಭೆಯ ನಡವಳಿ ವಿಷಯದ ಸಂಖ್ಯೆ. 178/2022-2 ರಲ್ಲಿ ಮಾನ್ಯ ಆಡಳಿತಗಾರರು ಅನುಮೋದಿಸಿರುತ್ತಾರೆ.

ಅದರಂತೆ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಜಕ್ಕೂರು ಗ್ರಾಮದಲ್ಲಿ ಹಳೇಯ ಸ್ಲಾಭ್ ಚರಂಡಿಯನ್ನು ರಿಸೆಟಿಂಗ್ ಮಾಡಿ ಹೊಸದಾಗಿ ಸ್ಲಾಬ್ ಚರಂಡಿಯನ್ನು ನಿರ್ಮಾಣ ಮಾಡುವುದು, ಕಾಂಕ್ರೀಟ್ ರಸ್ತೆ ಮತ್ತು ಡಾಂಬರು ರಸ್ತೆ ನಿರ್ಮಾಣ ಮಾಡುವ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಿ, ಅಗತ್ಯ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಈ ಕೆಳಕಂಡ ಐಟಂಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

1. ಹಳೇಯ ಕಲ್ಲು ಚಪ್ಪಡಿ ಚರಂಡಿಯನ್ನು ರಿಮೂಯಿಂಗ್ & ರಿಸೆಂಟಿಂಗ್ ಮಾಡುವುದು
2. ಕಲ್ಲು ಚಪ್ಪಡಿ ಚರಂಡಿ ನಿರ್ಮಾಣ ಮಾಡುವುದು
3. ಕಾಂಕ್ರೀಟ್ ರಸ್ತೆ ನಿರ್ಮಾಣ ಮಾಡುವುದು.
4. ರಸ್ತೆಯನ್ನು Scarifying ಮಾಡಿ ವೆಟ್‌ಮಿಕ್ಸ್ ಹರಡಿ, ಬಿ.ಎಂ ಮತ್ತು ಬಿ.ಸಿ ಮಾದರಿಯ ಡಾಂಬರೀಕರಣ ಮಾಡುವುದು
5. ಚರಂಡಿ ನಿರ್ಮಿಸಲು ಅಗೆತ ಮಾಡಿರುವ ಮಣ್ಣನ್ನು ಹೊರಸಾಗಿಸುವುದು ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.

ಮೇಲ್ಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು PWD SR- 2021-22 ದರಪಟ್ಟಿ ದರಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ 2022-23ನೇ ಸಾಲಿನ ಅನುದಾನದ ಲೆಕ್ಕ ಶಿರ್ಷಿಕೆ ಪಿ-3726ರ ಅಡಿಯಲ್ಲಿ ಅನುಮೋದಿಸಿ, ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ, ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿ ಕಾಮಗಾರಿಯನ್ನು ತುರ್ತಾಗಿ ಕೈಗೊಳ್ಳಬೇಕಾಗಿರುವುದರಿಂದ ಟೆಂಡರ್ ಕರೆದು ಗುತ್ತಿಗೆದಾರರನ್ನು ನೇಮಿಸಿ ಕಾರ್ಯದೇಶ ನೀಡಲು ಈ ಮೂಲಕ ತಮ್ಮಲಿ ಕೋರಲಾಗಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Jakkuru and Jakkuru Extension surrounding areas in ward No.08 Byatarayanapura Sub Division

Estimation Cost.Rs 5500000.00

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (Data Rate)								
	BS Drain	Sqm							
	Jakkuru								
	Govt School Road								
	LHS	Sqm	1	185.00	1.35		249.75		
					Total		249.75		
	Deduct 30% for Missing/Damaged						74.93		
	Consider 70% Qnty for Removing & Refixing						174.83		
					Sub Total		174.83		
	Data rate	121.00							
	Total						174.83	121.00	21154.00
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
	For Desilt								
	Jakkuru								
	Govt School Road								
	LHS	Cum	1	185.00	0.45	0.45	37.46		
	Basic rate	186.00							
	Area weightage 10%	18.60							
	Sub Total	204.60							
	Total						37.46	204.60	7665.00
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.1) 2018 - 2019								
		Sqm							
	Provide 30% for Missing/Damaged	From item no.01					74.93		
	Basic rate	700.00							
		42.00							
	Sub Total	742.00							
	Total						74.93	742.00	55595.00
4	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)								
	Road Cut Portion	Cum							
	Jakkuru								
	Govt School Beside	Cum	1	115.00	1.50	0.23	39.68		
	For CC Road								
	Jakkuru								
	Munisyamappa layout	Cum	1	155.00	5.30	0.30	246.45		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Cross Road	Cum	1	72.00	5.00	0.30	108.00		
	Basic rate	65.00							
	Area weightage 10%	6.50							
	Sub Total	**71.50**							
	Total						394.13	71.50	28180.00
5	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead MORTH Specification No. 305.4.3 PWD SR 21-22 Vol III Pg no 15 Item No 3.5)								
	Jakkuru								
	Govt School Road	Sqm	1	135.00	6.20		837.00		
	Basic rate	4.00							
	Area weightage 10%	0.40							
	Sub Total	**4.40**							
	Total						837.00	4.40	3683.00
6	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A)								
	Road Cut Portion	Cum							
	Jakkuru								
	Govt School Road	Cum	1	135.00	6.20	0.23	192.51		
	Govt School Beside	Cum	1	115.00	1.50	0.23	39.68		
	Basic rate	2394.00							
	Area weightage 10%	239.40							
	Sub Total	**2633.40**							
	Total						232.19	2633.40	611436.00
7	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))								
	Jakkuru								
	Govt School Road	Sqm	1	135.00	6.20		837.00		
	Govt School Beside	Sqm	1	115.00	1.50		172.50		
	Basic rate	42.00							
	Area weightage 10%	4.20							
	Sub Total	**46.20**							
	Total						1009.50	46.20	46639.00
8	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))								
	Jakkuru								
	Govt School Road	Cum	1	135.00	6.20	0.05	41.85		
	Govt School Beside	Cum	1	115.00	1.50	0.05	8.63		
	Basic rate	9139.00							
	Area weightage 10%	913.90							
	Sub Total	**10052.90**							
	Total						50.48	10052.90	507421.00
9	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503 (PWD SR 21-22 Vol III Pg no 29 Item No 5.4 (ii))								
	Jakkuru								
	Govt School Road	Sqm	1	215.00	6.20		1333.00		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Govt School Beside	Sqm	1	115.00	5.50		632.50		
	Basic rate	14.00							
	Area weightage 10%	1.40							
	Sub Total	15.40							
	Total						1965.50	15.40	30269.00
10	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16C)								
	Jakkuru								
	Govt School Road	Cum	1	215.00	6.20	0.04	53.32		
	Govt School Beside	Cum	1	115.00	5.50	0.04	25.30		
	Basic rate	10611.00							
	Area weightage 10%	1061.10							
	Sub Total	11672.10							
	Total						78.62	11672.10	917661.00
11	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)								
	Jakkuru								
	Govt School Road	Sqm	2	215.00	0.10		43.00		
	Govt School Beside	Sqm	2	115.00	0.10		23.00		
	Basic rate	478.00							
	Area weightage 10%	47.80							
	Sub Total	525.80							
	Total						66.00	525.80	34703.00
12	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates (PWD SR 21-22 Vol-I Pg no 15 Item No 2.1.1)								
	Jakkuru								
	Munisyamappa layout	Cum	1	155.00	5.30	0.15	123.23		
	Cross Road	Cum	1	72.00	5.00	0.15	54.00		
	Basic rate	4859.00							
	Area weightage 10%	485.90							
	Sub Total	5344.90							
	Total						177.23	5344.90	947250.00
13	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. (PWD SR 2021-22 Vol -III Pg 138 item no 20.29)								
	Jakkuru								
	Munisyamappa layout	Cum	1	155.00	5.30	0.15	123.23		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Cross Road	Cum	1	72.00	5.00	0.15	54.00		
	Basic rate	6512.00							
	Area weightage 10%	651.20							
	Sub Total	7163.20							
	Total						177.23	7163.20	1269499.00
14	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. as directed by Engineer incharge. MORTH Specification No. 602.6.3(PWD SR 2021-22 Vol -III Pg 146 item no 4)								
		m	57	5.00			285.00		
	Basic rate	70.00							
	Area weightage 10%	7.00							
	Sub Total	77.00							
	Total						285.00	77.00	21945.00
15	Providing to contraction joints polysuphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (approx. 25% larger than the initial 3 mm.to 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer. (A) Contraction and longitudinal joints (15 mm. deep x 8mm.wide). MORTH Specification No. 602.6.3(PWD SR 2021-22 Vol -III Pg 147 item no 5)								
	Qty Vide frm Item No-14	m					285.00		
	Basic rate	165.00							
	Area weightage 10%	16.50							
	Sub Total	181.50							
	Total						285.00	181.50	51728.00
16	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1A)								
	Qty Vide frm Item No-02+04	Cum					431.59		
	Basic rate	118.00							
	Area Weightage 10%	11.80							
	Total	129.80							
	Total						431.59	129.80	56021.00
17	**Cost of Haulage** Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)								
	Qty frm Item No-16	t.Km		367.44	1.28		470.33		
	Basic rate	12.00							
	8Km 12*8	96.00							
	Area Weightage 10%	9.60							
	Total	105.60							
	Total						470.33	105.60	49667.00
								Grand Total	4660516.00

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
								GST Charges (18% of estimated cost)	838893.00
								Miscellenious and rounding	591.00
								Total Amount	5500000.00
								RUPEES FIFTY FIVE LAKH ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019, PWD 2021-2022, Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

ADMINISTRATIVE APPROVAL

Accorded For Rs. Rs. 55.00 Lakhs only

Head of A/c. P3726

Div. Ref No. 47 Date 21/02/23

Technical Sanction
Accorded For Rs. 55.00 Lakhs
Head of A/C. P3726
CER NO :...104..... Dt: 16/02/23